

Approved For Release 2002/08/26 : CIA-RDP78-02820A000500020092-3

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) OC-E | | BUDGET EST. FY _____ AMOUNT _____ | | REPORTING PERIOD 1 - 31 March 1959 | |
| ACTION | | | | | |
| FUTURE | | <input checked="" type="checkbox"/> ACTIVE | | <input type="checkbox"/> COMPLETED | |
| <input type="checkbox"/> CANCELLED | | <input type="checkbox"/> SUSPENDED | | | |
| PROJECT NUMBER E-5010 | | PRIORITY CLASS I | | PRIM. RESPONSIBILITY EES | |
| PROJECT TITLE Receiving Antenna Multicoupler | | | | PROJECT ENGINEER 25X1A9A | |
| PROJECT REQUIREMENT To provide for OC requirements the best possible receiving antenna multicoupler. | | | | | |
| PROJECT DESCRIPTION To monitor the commercial and military developments in the field to determine if any of these multicouplers provided sufficient improvement to warrant replacing those now used in OC requirements. | | | | | |
| APPROVAL DATE 1 March 1956 | | APPROVED BY /WAB/ /JJK/ | | STARTING DATE 1 June 1956 | |
| COMPLETION DATE | | | | | |
| REMARKS During this reporting period, the NSA tests of the Westinghouse KM-1 multicoupler were received. These results substantiated all earlier findings in regard to performance. In view of all test results at hand concerning the performance of this unit, it has been decided to standardize on the KM-1. A memorandum has been drafted and sent to OC-T, OC-SP, OC-P, and OC-S for their coordination. Procurement will be initiated during the next reporting period provided all staffs agree that this unit should be adopted as standard. | | | | | |

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) | | BUDGET EST. | | REPORTING PERIOD | |
| OC-E | | FY | AMOUNT | 1 March - 31 March 1959 | |
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| ACTION | | | | | |
| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED | |
| PROJECT NUMBER | | PRIORITY CLASS | | PROJECT ENGINEER | |
| E-5020 | | I | | <div style="border: 1px solid black; width: 150px; height: 20px; display: inline-block;"></div> 25X1A9A | |
| PROJECT TITLE | | | | | |
| Modification Work Orders | | | | | |
| PROJECT REQUIREMENT | | | | | |
| To notify all field stations of standard modifications to equipment. | | | | | |
| PROJECT DESCRIPTION | | | | | |
| Reproduce necessary copies, assemble and prepare cover letters for all Modification Work Orders. Obtain approval and coordination. Determine category of distribution and forward to appropriate areas. | | | | | |
| APPROVAL DATE | | APPROVED BY | | COMPLETION DATE | |
| | | AJW /s/ JJK /s/ | | 8 February 55 | |
| REMARKS | | | | | |
| MWO #28 - "Replacement of Time Delay Relay K-4 in RT-4 Transmitter." Distribution completed. | | | | | |
| MWO #27 - "Modification of Tiny Tot Model "B" When Switching from "TD" to "KBD" Operation." Distribution completed. | | | | | |
| MWO #29 - "Converting Model "B" Tiny Tot to Model "C" Mark III to Decrease Radiation and Increase Traffic Capacity." This MWO is in the final typing stage. | | | | | |
| MWO #30 - "Modification of Tuning Units TU-55 and TU-56 for Improving the Performance of the RT-4 Transmitter when operating within the 18-30 mc. Extended Frequency Range." This MWO is in the final typing stage. | | | | | |

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) OC-E/OC-O+T | | BUDGET EST. FY. AMOUNT | | REPORTING PERIOD 1 - 31 March 1959 | |
| <input type="checkbox"/> FUTURE | | <input checked="" type="checkbox"/> ACTIVE | | <input type="checkbox"/> COMPLETED | |
| <input type="checkbox"/> CANCELLED | | <input type="checkbox"/> SUSPENDED | | | |
| PROJECT NUMBER E-5021 | PRIORITY CLASS II | PRIM. RSPN. EES | PROJECT ENGINEER [REDACTED] 25X1A9A | | |
| PROJECT TITLE DF Development and Replacement Program | | | | | |
| PROJECT REQUIREMENT To provide standard DF equipments of the following types to meet Agency requirements: (a) Semi-Fixed HF, DF. (b) Portable HF, DF. (c) Portable VHF, DF. (d) Close range, body type HF, DF. | | | | | |
| PROJECT DESCRIPTION Investigate military, FCC, and commercial developments in the field of DF. Compile a report on the latest development, including cost, availability and specification and recommend equipments for standardization. Should the investigation be unfruitful, prepare specifications for the development and manufacture of equipments to meet Communications requirements. | | | | | |
| APPROVAL DATE March 1957 | APPROVED /WAB/ /JJK/ | | STARTING DATE March 1957 | COMPLETION DATE | |

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During this reporting period, contacts were established with NSA and their approval was granted for a visit to Vint Hill, Va. for the purpose of viewing the new [REDACTED] installation. It is expected that this installation will be completed during the next month, with the trip planned as soon as the units is operational.

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) OC-E | | BUDGET EST. FY: AMOUNT: | | REPORTING PERIOD 1 March - 31 March 1959 | |
| FIGURE | | ACTION | | | |
| <input checked="" type="checkbox"/> ACTIVE | | <input type="checkbox"/> COMPLETED | | <input type="checkbox"/> CANCELLED | |
| PROJECT NUMBER E-5037 | | PRIORITY CLASS II | | PRIM. RESPONSIBILITY FES | |
| PROJECT TITLE | | | | PROJECT ENGINEER <div style="border: 1px solid black; width: 150px; height: 20px; display: inline-block;"></div> | |

25X1A9A

Technical Bulletins

PROJECT REQUIREMENT

To keep the field supplied with current technical information pertinent to general operation.

PROJECT DESCRIPTION

Scan technical literature to determine and select items for field distribution, determine distribution category, reproduce required number of copies, prepare cover letter, arrange approval and coordination, and forward to appropriate areas.

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| APPROVAL DATE | APPROVED BY AJW /s/ JJK /s/ | STARTING DATE 2 February '56 | COMPLETION DATE |
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REMARKS

- TB #24 - FHB #90-1007-1, "Impedance Matching with a Trolley Meter,"
This bulletin was sent to reproduction and will be issued next month.
- TB #25 - FHB #90-1003-1, "Performance and Design of Sloping Vee Antenna,"
Distribution to the Field completed. 20 additional copies have been requested from reproduction to satisfy Headquarters' requirements.
- TB #27 - FHB #90-1004-1, "Extending Electron Tube Life w/Tube Shields,"
Distribution is being delayed until tube shield catalogs are received for issue as a supplement to this bulletin.
- TB #28 - FHB #90-1005-1, "Field Alignment of Collins 51-J Receiver using 100 kc. Oscillator as a Signal Generator," Distribution to the Field completed.
- TB #29 - FHB #90-1006-1, "Teflon Safety Precautions," Distribution completed.

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| MONTHLY PROJECT REPORT | | | |
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| ORIGINATOR(S) | BUDGET EST. FY. AMOUNT | REPORTING PERIOD 1 - 31 March 1959 | |
| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER E-5053 | PRIORITY CLASS I | PRIM. RSPN. EES | PROJECT ENGINEER <div style="border: 1px solid black; width: 150px; height: 1.2em;"></div> 25X1A9A |
| PROJECT TITLE URT-11 Power Supply Arcing | | | |
| PROJECT REQUIREMENT The filament winding of a high voltage transformer and the filter choke are arcing at the feed-through bushings. This project is to determine the cause of and corrective measures for this problem. | | | |
| PROJECT DESCRIPTION Preliminary investigation has indicated this arcing-over is not caused by insufficient voltage ratings of the components. It may be caused by a resonance. The problem will be turned over to a consulting firm for investigation and recommendations. Corrective measures for eliminating this problem will be distributed as a Modification Work Order. | | | |
| APPROVAL DATE 15 September 1955 | APPROVED <div style="border: 1px solid black; width: 100px; height: 1.2em; text-align: center;">WAB /s/ JJK /s/</div> | STARTING DATE 20 September 1955 | COMPLETION DATE |
| <p>A satisfactory modification has been devised whereby the transient voltage has been reduced to a value which does not exceed the normal A.C. peak voltage (measured from the high voltage terminal to grounded center top) of the HV power transformer. This is well within the rating of the power supply components.</p> <p>This modification consists of swamping resistors placed across the secondary of the high-voltage transformer in such a manner that when the DC supply begins to supply current a normally closed relay opens and removes the resistors from across the transformer secondary. During the next reporting period a transmitter will be modified and submitted to a life test. A modification work order will be prepared.</p> | | | |

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MONTHLY PROJECT REPORT

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| ORIGINATOR'S | BUDGET EST. | REPORTING PERIOD |
| OC-P | AMOUNT | 1 - 31 March 1959 |

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| PROJECT | <input checked="" type="checkbox"/> ACTIVE | ACTION | | | |
| PROJECT NUMBER | PRIORITY CLASS | COMPLETED | CANCELLED | SUSPENDED | |
| E-5060 | I | | SDS | | 25X1A9A |
| PROJECT TITLE | PROJECT ENGINEER | | | | |

Strategic Reserve Program

PROJECT REQUIREMENT

To provide readily available transportable type package radio stations at convenient locations throughout the world for immediate installation and operational use in the event of an emergency.

PROJECT DESCRIPTION

To provide bills of materials for 2, 5, 10, 13, 15, and 20 position transportable type package radio stations with suggested floor plan layouts and standard wiring diagrams to provide efficient equipment utilization.

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| APPROVAL DATE | APPROVED BY | STARTING DATE | COMPLETION DATE |
| Sept. 53 | WAB /s/ JJK /s/ | September 53 | |

Various discrepancies in the Bills of Materials for the 5, 10, 15, and 20 Position Transportable Stations have been discovered in the present revision of the stockpile. These discrepancies consist of items currently classed as limited standard and substitutions have been recommended.

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| MONTHLY PROJECT REPORT | | | |
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| ORIGINATOR(S) OC-S | BUDGET EST. FY. AMOUNT | REPORTING PERIOD 1 - 31 March 1959 | |
| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER E-5071 | PRIORITY CLASS I | PRIM. RSPN. SDS | PROJECT ENGINEER [REDACTED] 25X1A9A |
| PROJECT TITLE Tiny-Tot Electro-Magnetic Radiation Reduction | | | |
| PROJECT REQUIREMENT Reduction of the radio-magnetic radiation to a maximum of 3 feet. | | | |
| PROJECT DESCRIPTION The present Tiny-Tot has detectable compromising electro-magnetic radiation up to 15 feet from the unit. Determine the radiation reduction by: shielding the magnets; reductions of magnet current; use of dummy magnets wired in opposition to the normal field; and use of external masking elector-magnetic field. Radiation recordings to be made on an oscilloscope for comparative reduction by individual and combinations of methods. | | | |
| APPROVAL DATE 29 October 1956 | APPROVED /WAB/ /JJK/ | STARTING DATE 29 October 1956 | COMPLETION DATE |
| <p>25X1A5A1</p> <p>The rough draft of MWO No. 29 which covers modifications required to provide radiation suppression on Tiny Tots was completed and edited during this reporting period. Copies for distribution to the field are expected to be ready during May. The modification kits which have been ordered from [REDACTED] will be available about 15 May.</p> | | | |

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| MONTHLY PROJECT REPORT | | | |
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| ORIGINATOR(S) OC-E | BUDGET EST. FY. AMOUNT | REPORTING PERIOD 1 - 31 March 1959 | |
| <input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED | | | |
| PROJECT NUMBER E-5085 | PRIORITY CLASS I | PRIM. RSPN. SDS | PROJECT ENGINEER |
| PROJECT TITLE Communications Systems Planning for New Headquarters Building | | | |
| PROJECT REQUIREMENT To determine the types of Communications systems, and the quantities of equipment that will be required for installation in the new Headquarters Building to meet Agency communications requirements. | | | |
| PROJECT DESCRIPTION To investigate and compile information on new communications systems and equipment. To meet regularly with representatives of the Message Center Staff, Operations, Engineering, and Security Divisions, and the OC member of the New Building Planning Staff to discuss communications requirements for the new building. To prepare a list of the equipment that will be required and suggested floor plans and equipment layouts defining spare requirements. | | | |
| APPROVAL DATE January 1957 | APPROVED WAB /s/ JJK /s/ | STARTING DATE January 1957 | COMPLETION DATE |
| During this reporting period copies of revised drawings of the signal center area in the new building were obtained from the New Building Planning Staff. | | | |

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MONTHLY PROJECT REPORT

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| PROJECT NO. OC-DET | BUDGET EST. AMOUNT | REPORTING PERIOD 1 - 31 March 1959 |
| <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED | | |
| PROJECT ORIGIN S-7409 | PRIORITY CLASS F | PRIM. RSPN. RES PROJECT ENGINEER |

25X1A9A

Selective Calling Systems

PROJECT REQUIREMENT

To determine what type, if any, selective calling system can be adapted for use in our overseas installations in order that stations may be alerted during unattended watch periods of emergency situations.

PROJECT DESCRIPTION

To investigate and compile a listing of all types of selective calling systems with such information as purpose, operational, technical and physical characteristics, and cost.

To select by operational and technical evaluations, if necessary, and recommend one of these systems be adopted.

If approved, to implement procurement and installation.

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| APPROVAL DATE December 1956 | APPROVED WAB /s/ GJK /s/ | STARTING DATE January 1957 | COMPLETION DATE |
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During this reporting period, the scope of the selective calling project has been thoroughly discussed with OC-W. These discussions led to a re-evaluation of the requirement for selective calling. Hence, OC-W is preparing a memorandum setting forth the most recent requirements, including size, emission, and urgency.

At the same time, action has been initiated to collect all available data on the RMCA selective calling system and to investigate the possibility of development of a small, battery operated encoder to work into the RMCA decoder.

| MONTHLY PROJECT REPORT | | | |
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| ORIGINATOR(S) OC-E/OC-O+T | | BUDGET EST. FY. AMOUNT | REPORTING PERIOD 1 - 31 March 1959 |
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| PROJECT NUMBER E-5102 | PRIORITY CLASS I | PRIM. RSPN. EES | PROJECT ENGINEER [REDACTED] 25X1A9A |
| PROJECT TITLE Voice Link for 6-ST | | | |
| PROJECT REQUIREMENT Provide a voice link between the transmitter and receiver vans based on suggestions from operation [REDACTED] 25X1A2G | | | |
| PROJECT DESCRIPTION Design and install in the two 6-ST units currently at the [REDACTED] ware- 25X1A6A house a voice link capable of providing communication between the transmitter and receiver vans. The link should have the following capabilities: a. Power output and range approximately the MUX link. b. Be portable or work in conjunction with an extra portable unit. c. Work into the present MUX antenna system or provide a separate antenna system. Once the above is accomplished, a modification work order will be published for the rework of the remaining 6-ST's. | | | |
| APPROVAL DATE May 1957 | APPROVED /WAB/ /JJK/ | STARTING DATE May 1957 | COMPLETION DATE |
| Investigation of the audio amplifier and modulator circuitry of the 6 ST VHF MUX system has disclosed the fact that any voice communications utilizing a keyed microphone will require internal changes in order to prevent interference. Briefly, the abrupt change in signal introduced by keying the microphone and by beginning to speak is seen by the modulator as a high frequency component, resulting in interference on the higher VFC channels. To overcome this problem, a low pass interstage filter will be installed between the last audio (voice) amplifier and the modulator. | | | |

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| MONTHLY PROJECT REPORT | | | | |
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| ORIGINATOR(S) OC-E | | BUDGET EST. FY 58 AMOUNT \$5,000 | | REPORTING PERIOD 1 - 31 March 1959 |
| ACTION | | | | |
| FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER E-5105 | PRIORITY CLASS I | PRIM. RESPONSIBILITY EES | PROJECT ENGINEER <div style="border: 1px solid black; width: 150px; height: 20px; margin: 5px auto; text-align: right;">25X1A9A</div> | |
| PROJECT TITLE HT-4 Exciter Modification | | | | |
| PROJECT REQUIREMENT Some of the HT-4 transmitters do not have sufficient output from the exciter between 18 and 30 megacycles to drive the power amplifier to full output. | | | | |
| PROJECT DESCRIPTION The exciter circuitry will be investigated to find methods of increasing its output in the 18 to 30 megacycle range. Any changes necessary will be kept as simple as possible. An outside consulting firm may be called in on this problem if additional help is needed. When the exciter drive is increased to the proper level, modification kits will be made up to be used in conjunction with Modification Work Order NO. 7 (Revised). | | | | |
| APPROVAL DATE August 1957 | APPROVED BY <div style="border-bottom: 1px solid black; margin: 5px 0;">/AJW/</div> <div style="border-bottom: 1px solid black; margin: 5px 0;">/JJK/</div> | | STARTING DATE August 1957 | COMPLETION DATE |

REMARKS

The Modification Work Order was tested by having it performed by an inexperienced technician and found to be satisfactory. It will be published as MWO NO. 30, optional.

Fifty modification kits have been requisitioned and will be placed in stock.

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| MONTHLY PROJECT REPORT | | | |
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| ORIGINATOR(S) OC-E | BUDGET EST. FY. AMOUNT | REPORTING PERIOD 1 - 31 March 1959 | |
| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER E-5115 | PRIORITY CLASS I | PRIM. RSPN. EES | PROJECT ENGINEER 25X1A9A |
| PROJECT TITLE Standardization of VHF fixed, Mobile/AC Utility, Portable and Body Concealable Transmitter-Receiver Equipment in the Frequency Bands of 25-54 mcs and 144-174 mcs | | | |
| PROJECT REQUIREMENT Agency communication requirements necessitates the selection of equipments of the highest efficiency and flexibility for standardization. This is due to the recent acknowledgement by the Office of Communications of its responsibility for providing communications system in support of surveillance activities, plus the other Agency requirements. | | | |
| PROJECT DESCRIPTION To determine by evaluation and comparison the best of a number of commercially available VHF Fixed, Mobile/AC Utility, Portable and Body Concealable Transmitter-Receiver Equipments. Suitable units will be selected and recommended for standardization. In the event suitable equipments are not available a program for the modification of existing equipments and/or a R + D program will be initiated. | | | |
| APPROVAL DATE March 1958 | APPROVED GBG KAA | STARTING DATE March 1958 | COMPLETION DATE |
| Fixed: Information has been requested from Lenkurt, RCA, Radio Engineering Laboratory, Motorola, and General Electric concerning VHF power amplifiers capable of up to 330 watts output and compatible with our present Mobile/A.C. Utility equipment. The information thus obtained will provide a basis for further investigation and possible procurement for evaluation. | | | |

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| MONTHLY PROJECT REPORT | | | | |
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| ORIGINATOR(S) OC-E | | BUDGET EST. FY. AMOUNT | | REPORTING PERIOD 1 - 31 March 1959 |
| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER E-5120 | PRIORITY CLASS I | PRIM. RSPN. EES | PROJECT ENGINEER 25X1A9A | |
| PROJECT TITLE Review of Present Converter field and Evaluation of Diversity Reception Systems | | | | |
| PROJECT REQUIREMENT Review what is currently on the market to determine if there is an economically suitable replacement for the Northern 107 Model 2 Frequency Shift Converter. To determine the advantages or disadvantages of space/frequency diversity reception systems for possible Agency application. | | | | |
| PROJECT DESCRIPTION Prepare a comparison chart of all Frequency Shift Converters currently being produced, such as the Westrex 50-B, TMC CFA, Hoffman CV-116, Northern 107 and 174, etc., to determine which is the most suitable unit to meet our requirements. To evaluate each converter in a diversity system. | | | | |
| APPROVAL DATE January 1958 | APPROVED /AW/ /JJK/ | STARTING DATE February 1958 | COMPLETION DATE | |
| <p>Evaluation of the CV-116 was completed, and a report is forth coming. This convertor is to be utilized next in the investigation of high speed RTTY under Project NO. 5139.</p> <p>Since the Westrex Model 50-B cannot be delivered before 3 April 1959, the contractor has been instructed to perform environmental heat tests on the three AF shift convertors, i.e. TMC Model CFA and Northern Models 107 and 174.</p> | | | | |

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) D/CO | BUDGET EST. FY | REPORTING PERIOD 1 - 31 March 1959 |
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| PROJECT NUMBER -5121 | PRIORITY CLASS I | PRIM. RESPONSIBILITY EES | PROJECT ENGINEER [Redacted] 25X1A9A |

PROJECT TITLE
KY-1 Voice Operated Relay

PROJECT REQUIREMENT
Investigate the feasibility of installing a voice operated relay in the KY-1.

PROJECT DESCRIPTION
A voice operated relay will be fabricated at the R + D Lab and will be given an evaluation on a KY-1 link between the office of the [Redacted] 25X1A

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| APPROVAL DATE January 1959 | APPROVED BY [Redacted] CBG JJK | STARTING DATE January 1959 | COMPLETION DATE |
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REMARKS

The NSA engineers have not completed the investigation of the inherent time delay experienced between the time the push to talk button is depressed and the time the KY-1 system is ready to pass traffic. Their recommendations should be forthcoming in the near future.

A transistorized VOR has been assembled by the R+D Lab which appears to fit into the KY-1 system quite well. Most of the circuitry used has been proven in other equipment developed by the R+D Lab so that very little additional development work should be required.

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) OC-O+T | BUDGET EST. FY. AMOUNT | REPORTING PERIOD 1 - 31 March 1959 |
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| PROJECT NUMBER E-5123 | PRIORITY CLASS I | PRIM. RSPN. SDS | PRO [REDACTED] |
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(E) (S) 25X1A9A

PROJECT TITLE

25X1C4A Antenna Systems for [REDACTED] Communications Nets.

25X1C4A PROJECT REQUIREMENT To provide an antenna system, with the receiving antenna(s) being capable of joint use by other offices, for communications nets installed in [REDACTED] buildings. The antenna installation should perform efficiently and yet not detract from the esthetic appearance of the building.

PROJECT DESCRIPTION

To investigate and test various types of multicouplers, vertical antennas with associated tuning networks, both remotely operated and passive, and to determine the type multicoupler and antennas best suited to meet the applicable requirements.

25X1A9A

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| APPROVAL DATE April 1958 | APPROVE [REDACTED] | STARTING DATE April 1958 | COMPLETION DATE |
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The Collins 180V-2 remotely tuned antenna coupler is expected to arrive during the next reporting period.

The antenna coupler will be tested and evaluated using a standard transmitting antenna and transmitter.

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) OC-SP/EA | BUDGET EST. FY. AMOUNT | REPORTING PERIOD 1 - 31 March 1959 |
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| PROJECT NUMBER E-5126 | PRIORITY CLASS I | PRIM. RSPN. SDS | PROJECT ENGINEER [] |
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25X1A9A

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| PROJECT TITLE 25X1A2D1 [] SPD Monitoring Station [] | |
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25X1A6A

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| PROJECT REQUIREMENT To provide engineering support for Project [] |
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25X1A2D1

PROJECT DESCRIPTION

Support required will consist of detailed systems engineering design for various communications facilities as requested by the cognizant divisions and the preparation of cost estimates, bills of materials and all necessary installation drawings.

25X1A9A

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| APPROVAL DATE April 1958 | APPROVED [] | STARTING DATE April 1958 | COMPLETION DATE |
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Procurement action for a 200 KW General Motors twin diesel motor generator and accessories was initiated. This provides a 3rd generator set at the site and is to be used for stand-by operation. The request was made by OC-SP. The field was notified.

A dispatch was originated revising the ordering information for 200 KW twin generators. Specifically, parts ordered for 60 cps generator units will use No. 12205 while parts for 50 cps units will order under No. 12203.

High lift pumps with belt sets were ordered for delivery to the field for use with the two 200 KW units now in operation. The third unit under procurement includes this pump.

Information was sent to the field stating that the presently installed switchboard can be modified for providing tie-in for the third generator as stand-by, but will not accommodate distribution of 600 KW. If the total load reaches 600 KW a new switchboard will be required.

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| MONTHLY PROJECT REPORT | | | |
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| ORIGINATOR(S) OC-E | | BUDGET EST. FY. 59 AMOUNT 20,000 | REPORTING PERIOD 1 - 31 March 1959 |
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| PROJECT NUMBER E-5131 | PRIORITY CLASS I | PRIM. RSPN. EES | PROJECT ENGINEER [REDACTED] 25X1A9A |
| PROJECT TITLE Modification of RS-1 | | | |
| PROJECT REQUIREMENT Complaints were received from the field concerning failures of the power cables, crystal sockets, and waterproofing of the RS-1, reference [REDACTED] 57-1738, [REDACTED] 57-1042. 25X1A | | | |
| PROJECT DESCRIPTION The newly designed power cable will be life tested to assure that it will sustain the operational stresses. A new crystal socket, which has been previously life tested, will be installed. A new pliobond seal will be used to increase the effectiveness of the waterproofing. An RS-1 will be removed from stock and the new parts and seal will be used to modify it. This project will culminate in the issue of a modification work order to all concerned areas. | | | |
| APPROVAL DATE July 1958 | APPROVED [REDACTED] | STARTING DATE July 1958 | COMPLETION DATE |
| Delivery of the five modification kits has been delayed until early April. Procedures for the modification have been agreed upon. | | | |

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) | | BUDGET EST. | | REPORTING PERIOD | |
| OC-E | | FY | AMOUNT | 1 - 31 March 1959 | |
| ACTION | | | | | |
| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED | |
| PROJECT NUMBER | | PRIORITY CLASS | | PROJECT ENGINEER | |
| E-5132 | | I | | SDS | |
| PROJECT TITLE | | 25X1A9A | | | |
| Operating Positions for New Agent Transmission Systems | | | | | |
| PROJECT REQUIREMENT | | | | | |
| Incorporate necessary components into base station operating positions. | | | | | |
| PROJECT DESCRIPTION | | | | | |
| Design base station operating positions that will include equipment that will be needed to receive and translate high speed and/or other new forms of agent communication signals. | | | | | |
| APPROVAL DATE | | APPROV | | COMPLETION DATE | |
| February 1959 | | GBG JJR | | February 1959 | |
| REMARKS | | | | | |
| The modified M90 [] was inspected at the [] plant. A trip report is attached. | | | | | |
| A receiving position, consisting of tape transport, convertor and monitor scope is being designed into an "AMCO" type rack. | | | | | |

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| MONTHLY PROJECT REPORT | | | | |
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| ORIGINATOR(S) OC-O+T 58-766 | | BUDGET EST. FY AMOUNT | | REPORTING PERIOD 1 - 31 March 1959 |
| ACTION | | | | |
| FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER E-5135 | PRIORITY CLASS I | PRIM. RESPONSIBILITY EES | | PROJECT ENGINEER 25X1 A9A |
| PROJECT TITLE Modernization of CP-4 Control Panel | | | | |
| PROJECT REQUIREMENT Redesign the CP-4 Control Panel and fabricate 100 units. | | | | |
| PROJECT DESCRIPTION Redesign the CP-4 control panel as a more efficient unit and rebuild from the start, using miniaturization techniques wherever possible and practical, incorporating features in the equipment from experience gained from previous models of the control panel. | | | | |
| APPROVAL DATE July 1958 | APPROVED BY <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">/s/</div> <div style="display: flex; flex-direction: column;"> <div>GBC</div> <div>JJK</div> </div> </div> | | STARTING DATE July 1958 | COMPLETION DATE |
| REMARKS <p>The engineering model of the CP-5 Control Panel has been inspected by the Operational Requirements Section of OC-T. At their request the following specifications have been incorporated .</p> <p style="margin-left: 40px;">A) A power transformer capable of operating from either 110 or 220 volt 50/60 cycle power mains.</p> <p style="margin-left: 40px;">B) Line fuse mounted on the front panel.</p> <p style="margin-left: 40px;">C) Auxiliary A.C. receptacle mounted on rear panel (fused).</p> <p>In addition, a mounting panel will be designed to facilitate rack mounting.</p> <p>The CP-5 is packaged in the form of a book measuring 7$\frac{1}{4}$" wide X 5$\frac{1}{2}$" deep X 3" high. Control panel labeling and rubber mounting feet can be readily re-arranged to facilitate either horizontal or vertical mounting.</p> <p>Electrical and mechanical drawings have been completed. Necessary arrangements will now be made to initiate the fabrication of the CP-5 Control Panel.</p> | | | | |

MONTHLY PROJECT REPORT

OC-S

1 - 31 March 1959

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E-5136

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EES

25X1A9A

Maximum Cryptographic Part Alarm (MACPAL)

Provide an alarm for the TSEC/KL-7 which will notify the operator when a pre-determined number of groups have been typed.

The MACPAL should be an incandescent lamp which will light at 90 groups or 335 groups and which will continue to burn until the counter is re-set.

July 1958

/OBC/
/JFK/

July 1958

Specifications and drawings of the AL-1 were sent to one manufacturer. They will fabricate the five units at a cost of \$510 each. This price is considerably more than what was expected.

The specifications and drawings have been sent to another manufacturer for another bid.

| MONTHLY PROJECT REPORT | | | | |
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| ORIGINATOR(S) OC-E | | BUDGET EST. FY. AMOUNT | | REPORTING PERIOD 1 - 31 March 1959 |
| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER E-5137 | PRIORITY CLASS I | PRIM. RSPN. EES | PROJECT ENGINEER <div style="border: 1px solid black; width: 150px; height: 1.2em;"></div> 25X1A9A | |
| PROJECT TITLE Coaxial Output Network for the 231-D Transmitter | | | | |
| PROJECT REQUIREMENT A coaxial output network, independent of the existing unbalanced output is required for the 231-D Transmitter. | | | | |
| PROJECT DESCRIPTION The output circuit of the 231-D Transmitter will be investigated and a suitable network, with provisions for metering, will be designed and fabricated to accommodate coaxial fittings. The existing outputs (i.e., unbalanced and balanced 600 ohm line feed) of this transmitter will not be affected. A modification kit with instructions will be drawn up.. | | | | |
| APPROVAL DATE July 1958 | APPROVED <div style="border: 1px solid black; width: 100px; height: 40px; margin: 5px auto;"></div> | STARTING DATE July 1958 | COMPLETION DATE | |
| <p>During the reporting period, a set of pilot drawings has been completed for fabrication of a coaxial output network. A parts list has also been completed. A contract for fabrication will be let in the near future.</p> <p>The writing of the Modification Work Order has been delayed until one kit is complete. This kit will be installed and accepted prior to delivery of the other units, and the MWO will be written at that time.</p> | | | | |

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(When Filled In)

MONTHLY PROJECT REPORT

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| PROJECT NO. CSD 2-517 | BUDGET EST. | | REPORTING PERIOD |
| | FY | AMOUNT | 1 - 31 March 1959 |
| ACTION | | | |
| <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED |
| PROJECT NAME C-5138 | PRIORITY CLASS I | PRIM. RESPONSIBILITY ECS | PROJECT ENGINEER 25X1A9A |

Teletype Clear Text Alarm

A device is required which will detect the clear text word "CITE" when transmitted to a signal line. Upon detecting this word the device will provide a disabling circuit for the transmitter-distributor and an audible and/or visual alarm shall be given.

All signal lines are monitored by model-14 reperforators. Contact assemblies are available that are operated by the pull bars on the M-14. These contacts can be aided so that they are operated by the space, C, I, T, and E pull bars. These contacts can be used to control the Clear Text Alarm device. The Clear Text Alarm device will be either relay or diode operated and contain its own power supply.

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| APPROVED BY | STARTING DATE | COMPLETION DATE |
| August 1958 /WAB/ /JJK/ | August 1958 | |

Two S8Z-5 electronic monitors have been requisitioned on extended loan basis from the Air Force. Tentative delivery is scheduled in April.

The Air Force S8Z-5 line monitor shows considerable promise so no further development work will be done until the S8Z-5 is thoroughly tested and evaluated.

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) | | BUDGET EST. FY. AMOUNT | | REPORTING PERIOD 1 - 31 March 1959 | |
| <input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED | | | | | |
| PROJECT NUMBER E-5139 | | PRIORITY CLASS | | PRIM. RSPN. | |
| PROJECT TITLE Investigation of Possibility of Increasing the Speed of Teletype Staff Communications | | | | | |
| PROJECT REQUIREMENT To determine the maximum reliable transmission speed of Agency teletype staff circuits when using conventional FSK techniques. | | | | | |
| PROJECT DESCRIPTION Engineer a high speed radio teletype communication system and, evaluate the operation of this system at speeds up to 300 wpm over an ionospheric path. Conventional FSK techniques are to be employed except that the shift may be optimized for the speed actually transmitted. All equipments employed are to be commercially available items, however, modifications to the equipments are permitted. If possible, terminal equipments are to be selected which will operate at speeds in excess of 300 wpm. The system should be compatible with existing facilities to the extent that no major changes in radio transmitting and receiving equipment will be required. | | | | | |
| APPROVAL DATE December 1958 | | APPROVED | | STARTING DATE | |
| | | | | COMPLETION DATE | |
| <p>Evaluation of the CV-116 was completed and this equipment is now available for testing as a component in high-speed RTTY systems.</p> <p>A visit was made to the Washington office of the [redacted] to observe the [redacted] High-Speed (600 wpm) tape system in operation. Arrangements were made to obtain one complete system on a loan basis, and to perform such modifications as may be necessary to enable operation on speeds of 180, 240, and 300 words per minute.</p> <p>OC-T has been requested to provide pronunciation studies for paths between Washington [redacted] and Washington [redacted] to enable further planning toward this investigation.</p> | | | | | |

25X1A9A

25X1A9A

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25X1A

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Approved For Release 2002/08/26 : CIA-RDP78-02820A000500020092-3

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| MONTHLY PROJECT REPORT | | | | |
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| ORIGINATOR(S) OC-O&T 58-807 | | BUDGET EST. FY. AMOUNT | | REPORTING PERIOD 1 - 31 March 1959 |
| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER E-5141 | PRIORITY CLASS I | PRIM. RSPN. EES | | 25X1A9A |
| PROJECT TITLE Device to Produce MIMIC Capabilities | | | | |
| PROJECT REQUIREMENT Provide 15 MIMIC Units capable of determining when there is modulation present on the received signal and reproduce this modulation for rebroadcast. It should also be able to determine if the unmodulated carrier is present, which should control the carrier of the MIMIC transmitter. | | | | |
| PROJECT DESCRIPTION Design and construct a prototype MIMIC Unit and make up manufacturing specifications and drawings. Test and evaluate prototype unit and obtain approval for the manufacture of production units. Distribute specifications and drawings for bids for a quantity of production units to fill OC requirements. | | | | |
| APPROVAL DATE AUGUST 1958 | APPROVED | | REPORTING DATE AUGUST 1958 | COMPLETION DATE |
| All components are being assembled by the contractor. Construction of the unit will begin in the near future. | | | | |

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) OC E | BUDGET EST. FY. AMOUNT | REPORTING PERIOD 1 - 31 March 1959 | |
| <input type="checkbox"/> FUTURE | <input type="checkbox"/> ACTIVE | <input checked="" type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER E-5143 | PRIORITY CLASS I | PRIM. RSPN. SDS | PROJECT ENGINEER 25X1A9A |
| PROJECT TITLE 25X1X7 [] Communication Network [] 25X1A2D1 | | | |
| PROJECT REQUIREMENT To design a communications network for the [] 25X1X7 | | | |
| PROJECT DESCRIPTION To provide engineering services involving the selection of the necessary equipment and the preparation of a bill of materials, wiring diagrams, and suggested floor plan layouts to accommodate the installation of the following: [] to 25X1A6A 2. Emergency radiotelephone facilities for each station capable of supporting lateral communications to all other stations in the network. 3. A radio direction-finding equipped vehicle to operate in conjunction with four, presently inactive, fixed direction-finding stations. | | | |
| APPROVAL DATE September 1958 | APPROVED GBG /s/ KAA /s/ | STARTING DATE | COMPLETION DATE March 1959 |

Informal discussions with representatives of OC-MD and NEA indicated that further requests for engineering assistance are not contemplated in the near future. This project, therefore, is considered as completed and will not be reported on further.

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MONTHLY PROJECT REPORT

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| ORIGINATOR(S) | BUDGET EST. FY. AMOUNT | REPORTING PERIOD 1 - 31 March 1959 |
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| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED |
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|---------------------------------|----------------------------|---------------------------|--|
| PROJECT NUMBER E-5144 | PRIORITY CLASS I | PRIM. DESK. IRS | PROJECT EXPIRATION <div style="border: 1px solid black; width: 150px; height: 20px;"></div> |
|---------------------------------|----------------------------|---------------------------|--|

PROJECT TITLE

25X1A9A

OC-SP Dual Electronic Power Supply

PROJECT REQUIREMENT

To fill a requirement for SP for a 400 cycle 600 volt-amp. and 28 VDC 10 amp. dual electronic power supply.

PROJECT DESCRIPTION

To prepare specifications which will fulfill SP's requirements for 10 each portable dual electronic power supplies. To examine the proposals received to determine which is best suited, taking into consideration weight, size, efficiency, delivery time, and method of operation. To monitor the fabrication of the production units. To conduct tests on the pre-production model to insure that it meets all specifications.

APPROVAL DATE

APPROVED

STARTING DATE

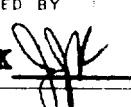
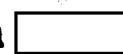

COMPLETION DATE

During this reporting period, the contractor has completed the engineering model and is beginning an evaluation of the circuitry. Upon satisfactory completion of this evaluation, the contractor will begin fabrication of the initial unit, eventually earmarked for Agency evaluation prior to acceptance of the entire order.

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(When Filled In)

| MONTHLY PROJECT REPORT | | | | |
|---|---|------------------------------------|------------------------------------|---|
| ORIGINATOR(S) | | BUDGET EST. | | REPORTING PERIOD |
| OC-E | | FY | AMOUNT | 1 - 31 March 1959 |
| ACTION | | | | |
| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input checked="" type="checkbox"/> SUSPENDED |
| PROJECT NUMBER | PRIORITY CLASS | PRIM. RESPONSIBILITY | PROJECT ENGINEER | |
| E-5172 | I | SDS | 25X1A9A | |
| PROJECT TITLE | | | | |
| AS-6 Base Station Systems Design | | | | |
| PROJECT REQUIREMENT | | | | |
| To design the base station antenna system and AS-6 equipment installation. | | | | |
| PROJECT DESCRIPTION | | | | |
| The project will include the antenna design, equipment layout, installation drawings and preparation of a bill of materials to incorporate the AS-6 system into existing base stations. | | | | |
| APPROVAL DATE | APPROVED BY | STARTING DATE | COMPLETION DATE | |
| February 1959 | JJK  | February 1959 | 25X1A9A | |
| REMARKS | | | | |
| <p>Preliminary engineering investigation has indicated  to be a much more adaptable site than  for the base station location. Antenna design work has been initiated and upon notification of a definite decision regarding the site selected, antenna plot plans and installation drawings will be prepared. Based on the engineering design the necessary test equipment and installation materials will be selected. This information will be forwarded to MEB for processing.</p> | | | | |

25X1A6B

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(When Filled In)

| MONTHLY PROJECT REPORT | | | | |
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| ORIGINATOR(S) | | BUDGET EST. | | REPORTING PERIOD |
| OC 8095 | | FY | AMOUNT | 1 - 31 March 1959 |
| ACTION | | | | |
| <input type="checkbox"/> FUTURE | <input checked="" type="checkbox"/> ACTIVE | <input type="checkbox"/> COMPLETED | <input type="checkbox"/> CANCELLED | <input type="checkbox"/> SUSPENDED |
| PROJECT NUMBER | PRIORITY CLASS | PRIM. RESPONSIBILITY | PROJECT ENGINEER | |
| E-5197 | I | SDS | 25X1A9A | |
| PROJECT TITLE | | | | |
| Portable Emergency Broadcast Station | | | | |
| PROJECT REQUIREMENT | | | | |
| To provide packages medium and shortwave 1 kilowatt broadcast stations for field use. | | | | |
| PROJECT DESCRIPTION | | | | |
| <ol style="list-style-type: none"> 1. Find a suitable 1 KW broadcast transmitter for the 535/1605 KC band. 2. Find a suitable 1 KW broadcast transmitter for the 2-26.1 MC band. 3. Find antennas useable in the 550/1600 KC band and supporting towers for dipoles in the 2-30 MC band. 4. Determine materials and accessories necessary for installation and operation of a complete broadcast station and requisition these items. 5. Install and field test the stations | | | | |
| APPROVAL DATE | APPROVED BY | SIGNATURE | | DATE |
| January 1959 | | January 1959 | | |
| REMARKS | | | | |
| <p>Our specifications on the medium and high frequency transmitters and antenna tuner were forwarded by OL to various contractors for bids. Bids are due on 17 April.</p> <p>The use of "Butler" type portable shelters was investigated. These seem to be practical for use as a combination studio/transmitter room.</p> | | | | |

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25X1A

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| MONTHLY PROJECT REPORT | | | | |
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| ORIGINATOR(S) OC-0+T | | BUDGET EST. FY. AMOUNT | | REPORTING PERIOD 1 - 31 March 1959 |
| <input type="checkbox"/> FUTURE <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> COMPLETED <input type="checkbox"/> CANCELLED <input type="checkbox"/> SUSPENDED | | | | |
| PROJECT NUMBER E-5412 | PRIORITY CLASS I | PRIM. RSPN. SDS | PR [REDACTED] 25X1A9A | |
| PROJECT TITLE One Man Radio Station | | | | |
| PROJECT REQUIREMENT Design a complete one man radio station to be used as a standard for the planning of all new one man stations or when renovating existing stations. | | | | |
| PROJECT DESCRIPTION This project was originally started in September 1956 to prepare a bill of materials and associated drawings to cover the installation of a one man radio station in [REDACTED] It has been expanded to cover the installation and renovation of all one man stations. Using the one man station design as a guide, a complete bill of materials, associated drawings and installation specifications will be prepared according to the requirements of each particular station. | | | | |
| APPROVAL DATE September 1956 | APPROVED <u>AJW /s/</u> <u>JJK /s/</u> | STARTING DATE September 1956 | COMPLETION DATE | |
| <p>The prototype One-Position Station was received during this reporting period and assembled in Room 2050, Alcott Hall. It is planned to demonstrate the unit to the various OC Operations Divisions and receive their comments before writing final specifications.</p> | | | | |

25X1A6A

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